

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-23 (*Canceled*):

24 (*Currently Amended*): An imaging apparatus ~~having an imaging unit which forms an object image and generates an image by photoelectric conversion, a generator which generates a single image from the image obtained by the imaging unit and a plurality of secondary images each obtained by shifting pixels of the obtained image, and a storage unit which stores the single image obtained by the generator in a storage medium, said apparatus comprising:~~

an imaging unit, arranged to form an object image and generate an original image by a photoelectric conversion of the object image;

a detector, arranged to detect spatial frequency characteristics of a plurality of color components of the original image ~~obtained by the imaging unit~~;

a controller, arranged to designate [[the]] data format and control supply of [[an]] the original image to [[the]] a storage unit in correspondence with the detected spatial frequency characteristics of the plurality of color components of the original image; [[and]]

a shift unit, arranged to shift [[the]] an optical unit to shift pixels of the original image ~~obtained by the imaging unit thereby generating the plurality of secondary images thereby generating a secondary image having pixels of the plurality of color components shifted from pixels of the plurality of color components of the original image; and [[,]]~~

a generator, arranged to generate a combined image by combining the original image with the secondary image.

wherein said shift unit changes a shift amount of the optical unit ~~pixels in each of the plurality of secondary images~~ in correspondence with a result of comparison between the spatial frequency characteristics of the plurality of color components of the original image detected by said detector.

25 (*Canceled*):

26 (*Currently Amended*): The apparatus according to claim 24, wherein said detector detects high-frequency components of the plurality of color components of the original image obtained by the imaging unit.

27-29 (*Canceled*):

30 (*Currently Amended*): An imaging method for an imaging apparatus having an imaging unit which forms an object image and generates an original image by a photoelectric conversion ~~of the object image, a generator which generates a single image from the image obtained by the imaging unit and a plurality of secondary images each obtained by shifting pixels of the obtained image, and a storage unit which stores the single image obtained by the generator in a storage medium~~, the method comprising the steps of:

detecting spatial frequency characteristics of a plurality of color components of the original image obtained by the imaging unit;

designating [[the]] data format and controlling supply of [[an]] the original image to [[the]] a storage unit in correspondence with the detected spatial frequency characteristics of the plurality of color components of the original image; and

shifting an optical unit for shifting [[the]] pixels of the original image ~~obtained by the imaging unit thereby generating the plurality of secondary images thereby generating a~~

secondary image having pixels of the plurality of color components shifted from pixels of the plurality of color components of the original image; and [[.]]

generating a combined image by combining the original image with the secondary image,

wherein said shifting step changes a shift amount of the optical unit pixels in each of the plurality of secondary images in correspondence with a result of comparison between the spatial frequency characteristics of the plurality of color components of the original image detected in said detecting step.

31 (*Currently Amended*): A computer program product stored on a computer readable medium comprising computer program code, for executing imaging processing of an imaging apparatus having an imaging unit which forms an object image and generates an original image by a photoelectric conversion of the object image, ~~a generator which generates a single image from the image obtained by the imaging unit and a plurality of secondary images each obtained by shifting pixels of the obtained image, and a storage unit which stores the single image obtained by the generator in a storage medium~~, the method comprising the steps of:

detecting spatial frequency characteristics of a plurality of color components of the original image obtained by the imaging unit;

designating [[the]] data format and controlling supply of [[an]] the original image to [[the]] a storage unit in correspondence with the detected spatial frequency characteristics of the plurality of color components of the original image; and

shifting an optical unit for shifting [[the]] pixels of the original image obtained by the imaging unit thereby generating the plurality of secondary images thereby generating a secondary image having pixels of the plurality of color components shifted from pixels of the plurality of color components of the original image; and [[.]]

generating a combined image by combining the original image with the secondary image.

wherein said shifting step changes a shift amount of the optical unit pixels in each of the plurality of secondary images in correspondence with a result of comparison between the spatial frequency characteristics of the plurality of color components of the original image detected in said detecting step.

32-34 (*Canceled*):

35 (*Previously Presented*): The imaging apparatus according to claim 24, wherein each of pixels of the imaging unit corresponds to one of the plurality of color components in such a manner that resolutions of the pixels corresponding to the plurality of color components are not the same.

36 (*Previously Presented*): The imaging apparatus according to claim 35, wherein said shift unit sets the shift amount in accordance with the resolution of the pixels corresponding to a color component having a largest high-frequency component among the plurality of color components.

37 (*Currently Amended*): The imaging apparatus according to claim 24, further comprising a combining unit configured to combine the image obtained by the imaging unit and the plurality of secondary images secondary image thereby generating the single combined image.

38 (*Currently Amended*): The imaging method according to claim 30, further comprising combining the original image obtained by the imaging unit and the plurality of secondary images secondary thereby generating the single combined image.

39 (*Currently Amended*): The computer program product according to claim 31, the method further comprising combining the image obtained by the imaging unit [[and]] with the plurality of secondary images secondary image thereby generating the single combined image.

40 (*New*): The imaging apparatus of claim 24, wherein the shift unit is configured to repeat the shifting of the optical unit for a plurality of times thereby generating a plurality of secondary images each having pixels of the plurality of color components shifted from pixels of the plurality of color components of the original image.

41 (*New*): The method of claim 30, further comprising repeating the shifting step for a plurality of times thereby generating a plurality of secondary images each having pixels of the plurality of color components shifted from pixels of the plurality of color components of the original image.

42 (*New*): The computer program product of claim 31, further comprising repeating the shifting step for a plurality of times thereby generating a plurality of secondary images each having pixels of the plurality of color components shifted from pixels of the plurality of color components of the original image.